FTA Free To Air Receiver

User Manual

TOCOMSAT

High Definition Digital Satellite Receiver

NANO HD

DVB-S2 HD

- DVB-S, DVB-S2, MPEG-2, MPEG-4, H.264
- 7 days EPG
- PVR function through USB 2.0
- Automatic time change
- HDMI
- Media player

H.264 MPEG-4/AVC HD | HDMI | USB | AVI | MOV | MKV

Contents

GENERAL INFORMATION 3

Main Features 3
For your Safety 4
Unpacking 5
General Operation 5
RCU 6
Front Panel 7
Rear Panel 7

INSTALLATION 8

Connect the antenna to the receiver.....8
Connect the receiver to the speaker 8
Connect the receiver to TV set 8
Installation Guide.....8

MENU INFORMATION 9

Main Menu 9
1. Edit Channel 9
1.1 Program Edit 9
1.2 Edit FAV Channel 10
1.3 Channel Option 10
2. Installation 10
2.1 Dish Setup 10
2.2 TP Manager 10
2.3 Satellite 11
2.4 Restore factory default 11
3. System Setup 11
3.1 Language.....11
3.2 Time 12
3.3 Timer 12
3.4 Parental Guidance 13
3.5 A/V Setup 14
3.6 OSD Setup 14
3.7 Misc Setup 15

4. Tools 15
4.1 Information 15
4.2 Network setting 15
4.3 Copy the update file to the USB drive from PC.....16
4.4 Update the receiver by USB interface 16
4.5 Media 17
4.6 File Manager 18
4.7 Photo Configure.....18
4.8 Movie Configure.....18
4.9 Format portable hard disk.....19
5. Game 19
6. PVR Function.....19
6.1 Instant Recording 19
6.2 Epg recording 20
6.3 Playback recorded program 20
7. Hot Key 20
7.1 Info 20
7.2 Audio 21
7.3 TXT 21
7.4 Find 21
7.5 V-Format 21
7.6 EPG 23
7.7 TV Channel and Radio Channel List 23
7.8 Favourite Channel.....23
Trouble Shooting 24

+ INTRODUCTION

This user manual is intended to guide you through the operation for the DVB-S/S2 High Definition Digital Satellite Receiver.

The password might require while you try to modify same advance option.

Default password is "0000".

+ MAIN FUNCATIONS AND FEATURE

This product is a high performance and cost-effective HDTV Satellite receiver. It fully complies with DVB-S/S2 receiver requirement specifications. It provides users with all digital Satellite TV and radio signals being broadcast in Standard Definition or High Definition.

Main Features

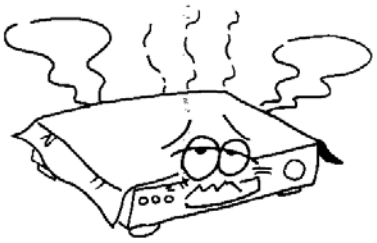
- Fully compatible with DVB-S/S2 digital standard
- Fully compatible with MPEG-4 H.264/AVC High Definition Digital TV
- Fully compatible with MPEG-2 High Definition and Standard Definition Output
- Fully compatible with MPEG-1 Layer I & II, Dolby Digital Audio
- 950-2150MHz Signal input and LOOP OUT
- On Screen Display with Multi-language
- Max 4000 Channels storage
- Fully support to Electronic Program Guide(EPG)
- Support Auto search, Manual search and Bilnd Scan
- Parental control for channels
- Plug and Play installation with an ease to use Menu System
- Coaxial S/PDIF and optical S/PDIF Digital audio output interface
- Support 576i, 576P, 720P, 1080I Video Resolution supported
- Support 4:3 and 16:9 Aspect Ratio
- DVB or EBU subtitle selected by the system based on availability on the network
- Various channel editing function(Favorites, Move, Skip、Lock, Delete)
- Support HDMI High Definition Multimedia Interface
- Software upgrade via USB2.0 interface
- High sensitivity, low Eb/No for receive Digital Television
- USB 2.0 interface PVR and media player
- Music player, Photo browser and video player function supported
- Record digital television program to a USB Flash Drive or an external USB portable hard disk and playback via USB2.0

For your Safety

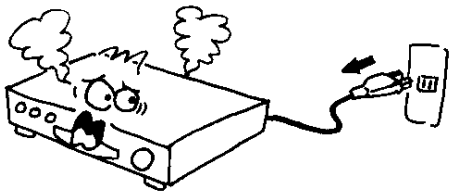
1. To avoid electric-shock hazards, do not open the cabinet, refer servicing to qualified personnel only.

2.Keep the receiver away from flower vases, tubs, sinks, etc., in order to avoid damaging the equipment.

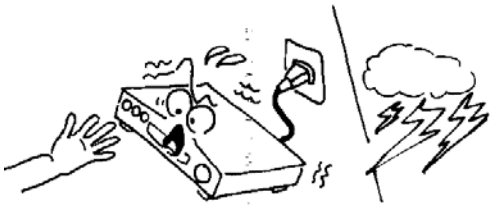
3. Do not expose the receiver un-der the sunlight. And keep it away from the heat source.



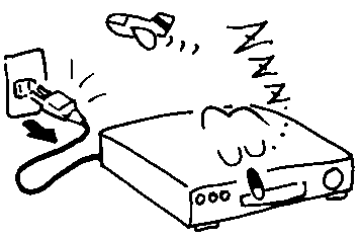
4. Do not block ventilation holes of the Receiver so that air can circulate freely.



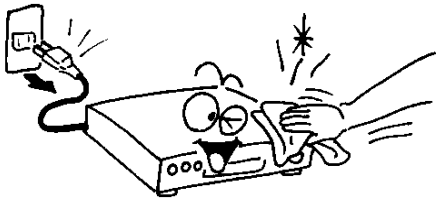
5.When the abnormal phenomenon occur, you should cut off the power immediately.



6. Do not touch the receiver during thunder, since that might create electric-shock hazards.



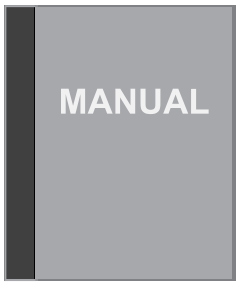
7. Switch the receiver off whenever it remains out of service for an extended period.



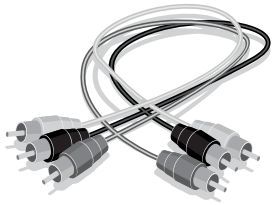
8. Be sure to turn the Receiver off and disconnect the AC power cord before cleaning the Receiver surface. If the surface is dirty, wipe clean with a cloth which has been dipped in a weak soap-andwater solution and wrung out thoroughly, and then wipe again with a dry cloth.

Unpacking

Remote Control



Guide



Audio / Video cable

General Operation

1. Throughout this manual you will notice that the everyday operation of the receiver is based on a series of user friendly on screen display and menus. These menus will help you get the most from your receiver, guiding you through installation, channel organizing, viewing and many other functions.

2. All functions can be carried out using the buttons on the RCU, and some of the functions can also be carried out using the buttons on the front panel.

3. The receiver is easy to use, always at your command and adaptable for future advances.

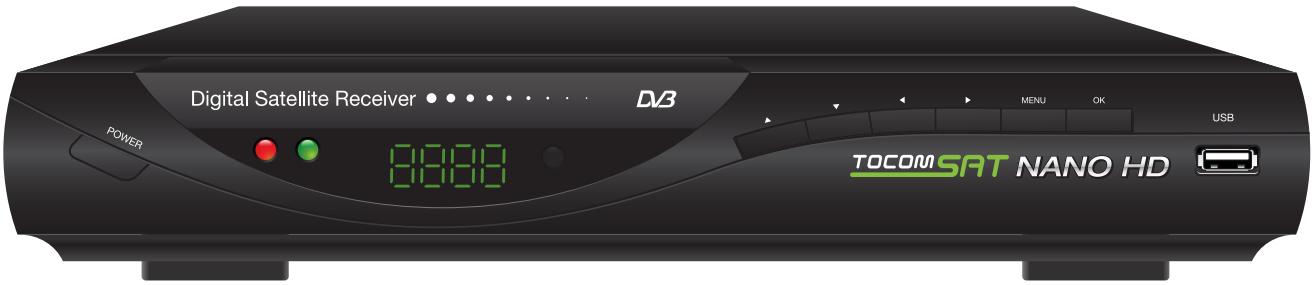
4. Please be aware that new software may change the functionality of the receiver.

5. Should you experience any difficulties with the operation of your receiver, please consult the relevant section of this manual, including the Problem Shooting, or alternatively call your dealer or a customer service adviser.

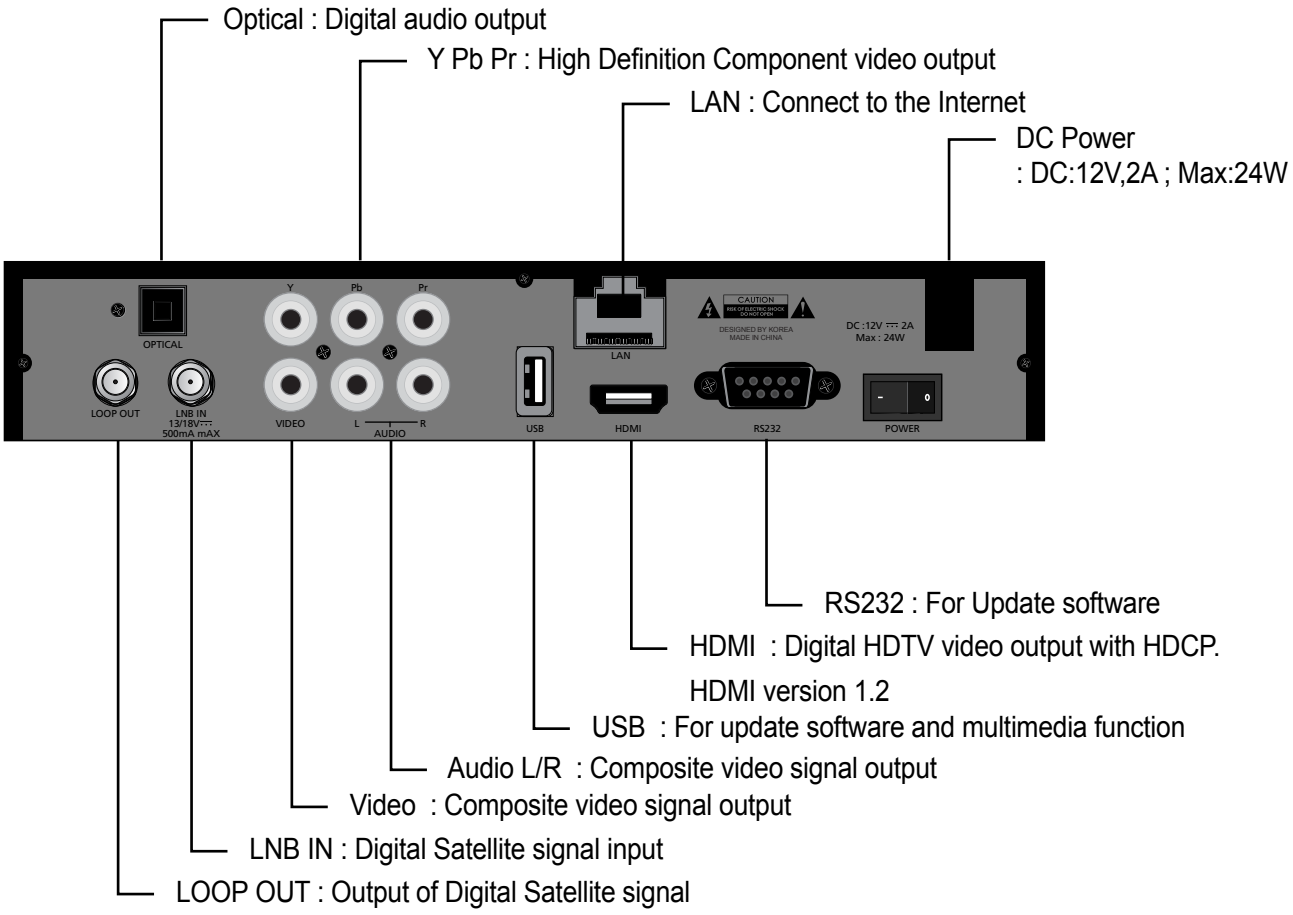
RCU

key	Function
⏻	Power ON/OFF the STB
🔇	Disable Audio output
SAT	Display the satellite list..
TV/AV	Switch between TV and AV mode
ZOOM	Enter into the ZOOM in mode
SLEEP	Enter into the sleep in mode
0~9	0-9 numeral buttons, for input of numbers or for selecting a TV channel
FAV	Display favorites channel
PAUSE	Press once to pause the screen picture,Press once again to go to the normal mode
FAV	Display favorites channel
PAGE+ / PAGE-	Page up/down in lists
CH+ / CH-	Select next/previous channel
VOL+ / VOL-	Increase or decrease the audio output volume
OK,LIST	Call up a program list for the current channel while watching digital/TV or listening to the radio. In the menu, this button serves to confirm the selection.
MENU	Display menu, press again to exit current menu
EXIT	Back to previous menu without saving
INFO.	Press INFO. Key to display the information bar during watch program.
EPG	Press EPG key to display 7 days EPG information.
FIND	Display the find window
V-FORMAT	Switch resolutions of video output
TXT	Sub title function key
AUDIO	Press AUDIO key to set the audio track and audio mode
RECORD	Press REC key to record the current program during watch TV program
▶	Playing or pause the program during watch PVR program
■	Press STOP key to stop recording program or stop program during watch PVR program.
◀◀ ▶▶	Press to fast forward or fast backward
◀ ▶	Press to slow forward or slow backward

Front Panel

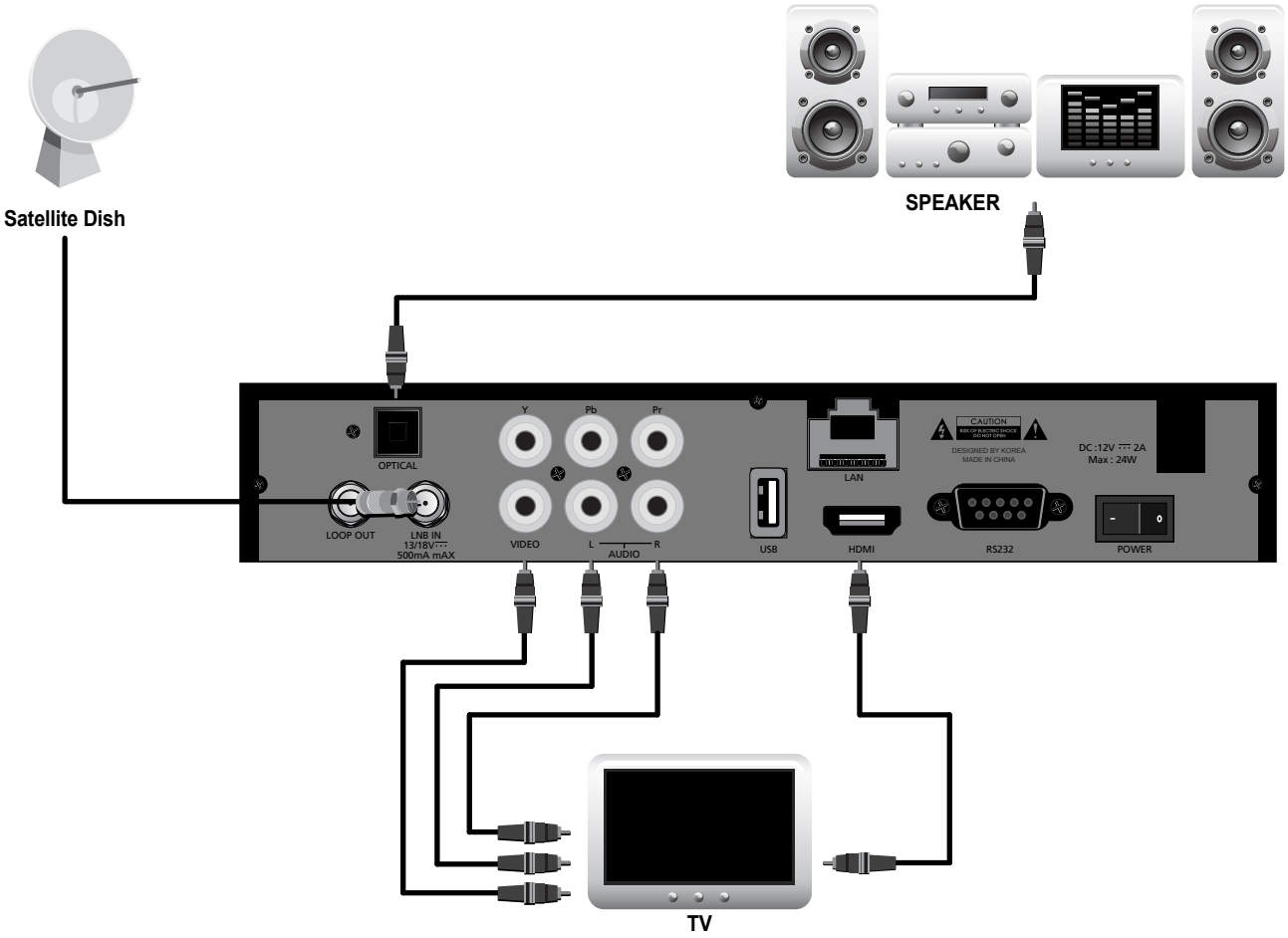


Rear Panel



Connect the antenna to the receiver.

Connect the receiver to the speaker.



Connect the receiver to TV set.

Installation Guide

✚ Follow the installation guide to enjoy your high definition digital TV world. Follow the help information that at the bottom of the window to select preference menu language and enter to Dish setup menu or TP manager menu setup to start channel search.

✚ If no channel is found during the channel searching process, the user may adjust the antenna position to obtain optimal TV signal.

1. Edit channel

Most function is available on main menu. Follow the operation help information on the bottom of the menu to modify preference option. The password was required while you trying to modify the settings. Default password is “0000”.

1.1 Program Edit

1. Press **RED** button to set the selected program as movable mode, a small move icon will appear at the right side, press up/down arrows to move the program in the list. Press **RED** key again to deselect, the small move icon will disappear.

2. Press **GREEN** button to set the selected program as skip mode, a samll skip icon will appear at the right side, Press **GREEN** key again to deselect, the small skip icon will disapper.

3. Press **YELLOW** button to lock the selected program, a small icon will appear at the right side screen. Press **YELLOW** key again to unlock, the small lock icon will disapear.

4. Press **BLUE** key to delete the selected program, press **OK** to confirm delete or press **EXIT** to cancel.

5. Press **FAV** button to pop up the Favorite Type window, use up/down arrows to select favorite group or disable favorite group option, press **OK** to assign into the group or disable, a small favorite icon will appear at the right side or disappear if disable is selected.

6. Press **EPG** key to rename the program name.

7. Press **EXIT** to exit Program Edit menu, and all changes will be saved automatically.

1.2 Edit FAV Channel

Press **RED** Key to assign the channel to a favorite group on the left list box, or you can Press **RED** key to cancel on the right list box.Press **GREEN** key to switch the different type FAV groups, you can select between 4 favorite groups in the FAV list. (Movie, News, Sports, Music)

1.3 Channel Option

Press **LEFT/RIGHT** Key to select Sort type, Press **EXIT** key to save and exit the menu. you can select between 4 sort types. (By service name, By LCN, By Encrypt, By Freq)

2. INSTALLATION

2.1 Dish Setup

Press the **MENU** key to display the main menu and Press the **UP/DOWN** key to move the cursor to the by press **LEFT/RIGHT** key , when the Dish Setup item is highlight Press **OK** to enter the sub-menu.Move the cursor to the Satellite item. Press **LEFT/RIGHT** key to select the different satellite.or Press **OK** key to display the Satellite list, Press **PGUP/PGDW** Key to select the satellite list, Press **OK** key to confirm. Move the cursor to the start Search item,when the Start Search is highlight, Press **LEFT/RIGHT** key to select the search type (Satellite, Blind Scan, Transponder, Multi-Sat, Network) and Press **OK** Key to start search.

2.2 TP Manager

Press **UP/DOWN** key and **PGUP/PGDW** to select the satellite in the left window, Press **RED** Key to add new Transponder to the Right window. Press **YELLOW** Key to delete all Transponder of the select satellite.

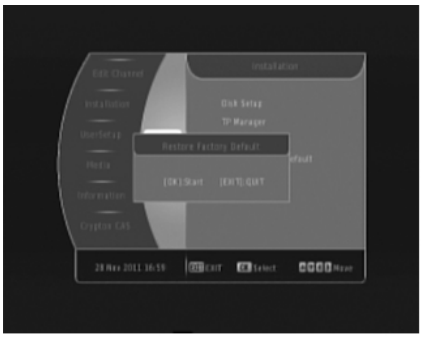
Press **BLUE** Key to search channel, the Channel search window will display, Press **LEFT/RIGHT** key to select scan mode (Transponder,Satellite) and Press **LEFT/RIGHT** key to select Search program type (FTA Channels, ALL Channels). Move the cursor to the scanning item and press **OK** key to start serach.

2.3 Satellite

Press **RED** Key to add new satellite, the add menu will display, Press **UP/DOWN** Key move the cursor to the satellite Name item, and Press **LEFT/RIGHT** Key to rename the satellite.
Press **UP/DOWN** Key move the cursor to Select the Longitude angle item and press number keys to input Longitude.
Press **EXIT** key to save and exit the menu.
Press **GREEN** Key to delete the select satellite, Press **YELLOW** Key to delete all satellites.

2.4 Restore factory default

This function allows the user to restore the Receiver to factory default settings. From the System settings sub-menu, Select Other Settings item and press **OK** Key to enter sub-menu Press **UP/DOWN** buttons to select Factory Reset item and press **OK** buttons to confirm. It will show the window like below. Press **LEFT/RIGHT** Key to select **YES** button and press **OK** key to confirm.



✚ NOTE : Do not switch off the power supply when you restoring to default settings.
Restoring the defaults settings to the STB will delete all saved channels and saved data. The STB will be reset to the default setting, Please carefully to using this function.

3. System Setup

3.1 Language

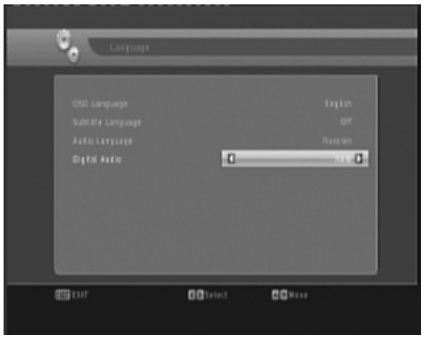
OSD language
This allows the user interface language to be changed. Select and confirm the desired language with the **LEFT/RIGHT** buttons. The language change is immediate After finish setting Press **EXIT** key or **MENU** key The saving information will display, Press **LEFT/RIGHT** Key to select **OK** button and press **OK** key on the remote control unit to confirm, and save setting.

Subtitle language

Supports multi-subtitle languages, You can press **SUB** key to select preferable Subtitle language. If there is no subtitle output after you select the subtitle language, it indicates that there is no subtitle on the current program.

Audio language

Support the multi-Audio language, You can press **AUDIO** key to select preferable audio mode. If there is no audio output after you select the audio language, it indicates that there is no audio on the current audio mode, so you have to select preferable audio mode.



Digital Audio

This allows setting the HDMI, Optical digital audio output by PCM or RAW format.

3.2 Time

Default Time offset is Auto and all the time is extracted from the services, Press **EXIT** or **OK** key exit and back to the previous menu. The settings will be saved automatically.

It is recommended to selecting Auto mode.

if Time offset selected Auto, user would press **LEFT/RIGHT** key to manual choose the Country Region;

If time offset is selected Manual the Time Zone allows the setting of time preferences. The user would press the **LEFT/RIGHT** key to manualy choose the time.

3.3 Timer

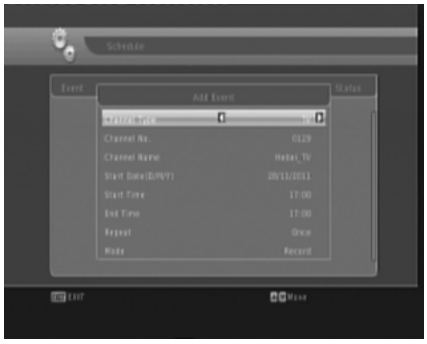
You could record preference program freely with timer recording feature. Go to EPG window and press **INFO** key to enter to the schedule window. You could add, edit and delete timer recording event on schedule window.

Color key operation

1. Green Key : Press **GREEN** Key to enter the edit window

2. Red key : Press **RED** key to add the timer recording envent on schedule window

3. Blue key : Press **BLUE** key to delete the timer recording envent on schedule window



3.4 Parental Guidance

When the User Setup menu display, press **UP/DOWN** Key to move the cursor to the Parental Guidance menu and press **OK** key, there will pop a dialogue for you to enter the password, and the default password is "0000". After you input the correct password, there will display the sub-menu.

Censorship by Age

Press **UP/DOWN** Key to move the cursor to select censorship by age item, and press **LEFT/RIGHT** key to change the age OFF, or change the age ON between 4-18 ages, Press **EXIT** key to save and exit the menu.

Menu Lock

Menu Lock determining that when user wish to enter menu, whether have to input Password or not. If the setting of "Menu Lock" is "ON" which means user have to key in password, set “OFF" means unlock. Press **UP/DOWN** Key to move the cursor to select menu Lock item, and press **LEFT/RIGHT** key to change lock mode ON or OFF. Press **EXIT** key to save and exit the menu.

Edit Channel Lock, Installation Lock, Media Lock and Power Lock setup way are the same as Menu lock.

Set Password

New Password is used for revising password; you can input the new password in this item by using number keys directly. After you filled in 6 digital numbers, the highlight will auto skip to Confirm Password and ask you to input the new password again. If the password is correct, the screen will show up a message of "Password Set Success". The new password setup success, If the new password is set by the user, please remember this new Password.

3.5 A/V Setup

When the User Setup menu display, press **UP/DOWN** Key to move the cursor to the A/V Setup menu and press **OK** key to enter the sub-menu.

Aspect Ratio

Press **LEFT/RIGHT** key to change aspect ratio. and Press **EXIT** key to save and exit the menu.

Resolution

Press **UP/DOWN** Key to move the cursor to select Resolution item, and press **LEFT/RIGHT** key to change Resolution. Press **EXIT** key to save and exit the menu.

Video system

While the cursor is on the Video system. You can press **LEFT/RIGHT** key to select each mode circularly. Now we provide below options: Auto / PAL / NTSC.

Video Output

Press **UP/DOWN** Key to move the cursor to select Video Output item, and press **LEFT/RIGHT** key to change video Output type. Press **EXIT** key to save and exit the menu.

3.6 OSD Setup

Display Time

Press **UP/DOWN** Key to move the cursor to select Display time item, and press **LEFT/RIGHT** key to change Display time. Press **EXIT** key to save and exit the menu.

Radio still

You can selet Radio still on/off

Transparent

Press **UP/DOWN** Key to move the cursor to select Display time item, and press **LEFT/RIGHT** key to change the value, There are 11 levels of transparency, Press **EXIT** key to save and exit the menu.

Menu Mode Logo

Press **UP/DOWN** Key to move the cursor to select menu mode logo item, and press **LEFT/RIGHT** key to change the mode ON or OFF. Press **EXIT** key to save and exit the menu.

Channel list

You can select channel list option big/simple

Screen saver

You can select screen saver option from sisable to 5hour

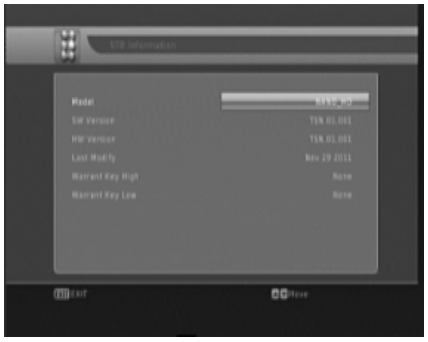
3.7 Misc Setup

When the User Setup menu display, press **UP/DOWN** Key to move the cursor to the Misc Setup menu and press **OK** key to enter the sub-menu. Press **LEFT/RIGHT** key to change the value, Press **EXIT** key to save and exit the menu.

4. Tools

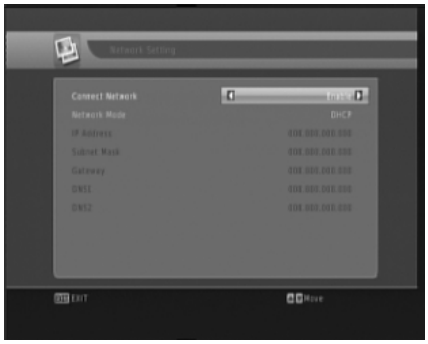
4.1 Information

The Information page allows the user to obtain information concerning the current software and hardware version of the Receiver and to set its behaviour in the event a new firmware /software for the Receiver is detected.



4.2 Network setting

Connect Network select between enable and unable, when it enable and DHCP, the IP address, subnet mask and gateway item will turn gray, you can not edit them.
when it enable and manual, the IP address, Press Numbers 0-9 the input the address.



4.3 Copy the update file to the USB drive from PC

1. Please go to service website or contact our customer service to get the latest software for updating the Receiver.

2. Plug the USB drive to the PC and backup the entire data of the USB drive. Right click the USB drive and select Format item. Format the USB drive as FAT32 file system.

4.4 Update the receiver by USB interface

1. Plug the USB drive that with the update file to the USB interface of the receiver.

2. Go to main menu-Media-file manager and press **BLUE** key to start upgrade process. While the upgrade progress showing 100% and update finish, remove the USB flash drive and power on the receiver again.

3. Please set the receiver to the factory settings after reboot the receiver

✚ NOTE : Please do not remove the USB drive from the receiver and power off the receiver during upgrading process. Otherwise the receiver may not work properly.

4.5 Media

Multimedia

Media feature also has been integrated on the receiver. You could show your preference photo, playing music and movie on media menu. Known supported file were illustration below. NTFS, FAT32 file system could be supported at the moment.

Move scroll bar when press **UP/DOWN** key. Go into sub-directory when press **OK** key in the file directory, play the selected file when scroll bar is on the file, automatic return USB menu after play is over.

Color key operation

1. Green Key : Press **GREEN** Key to enter the rename window, you can rename the file by press up or down or left or right on RCU.

2. Yellow key : Press **YELLOW** Key to delete symbol on your selected file. Press **OK** key on the file with delete symbol, it will pop up a dialogue:" To confirm the deletion?" Select YES to delete and select NO to quit without delect the file, and press **EXIT** key to quit without delect the file.

3. Red key : Press **RED** key to preview or fullscreen symbol on your seleced file.

Media player support file

Player	Supported file
Photo	JPEG, BMP, PNG
Music	*.wma, *.mp3, *.m4a, *.aac
Movie	*.avi, *.mpg, *.dat, *.vob, *.div, *.mov, *.mkv, *.mjpeg, *.ts, *.trp, motion jpeg

4.6 File Manager

Press **UP/DOWN** Key to select item and Press **OK** key to confirm. If the user select the USB upgrade file and press **BLUE** key, The STB will update new software. Press **EXIT** key to Cancel and exit the menu.

4.7 Photo Configure

Slide Time

Press **UP/DOWN** Key to move the cursor to select Slide Time item, and press **LEFT/RIGHT** key to change the Time, Press **EXIT** key to save and exit the menu.

Slide Mode

Press **UP/DOWN** Key to move the cursor to select Slide Mode item, and press **LEFT/RIGHT** key to change the mode, Press **EXIT** key to save and exit the menu.

View the Photos

Press **UP/DOWN** Key to move the cursor to select view the photos item, and press **LEFT/RIGHT** key to change the view type, Press **EXIT** key to save and exit the menu.

4.8 Movie Configure

Subtitle Specific

Press **UP/DOWN** Key to move the cursor to select Subtitle specific item, and press **LEFT/RIGHT** key to change the specific, Press **EXIT** key to save and exit the menu.

Subtitle BG

Press **UP/DOWN** Key to move the cursor to select Subtitle BG item, and press **LEFT/RIGHT** key to change the mode, Press **EXIT** key to save and exit the menu.

Subtitle FontColor

Press **UP/DOWN** Key to move the cursor to select Subtitle fontcolor item, and press **LEFT/RIGHT** key to change the fontcolor, Press **EXIT** key to save and exit the menu.

4.9 Format portable hard disk

Format hard disk function also has been provided. Format hard disk would delete all the data on the hard disk. It is strongly recommended to backup all the data before format the hard disk.

5. Game

1. Press **OK** Key to enter into the game
2. Press **PR+,PR-** keys to move the cursor up or down
3. Press **EXIT** key to move the focus to the left menu
4. Select the game that you want to play and press **OK** to enter into the window

6. PVR Function

Base on USB PVR function you could record the preference program and playback. Instant recording, EPG recording and timer recording were available.

6.1 Instant Recording

Press **REC**. key to start instant recording during watch TV and the recording symbol would be display on the left top of the screen. Press **INFO**. key to get further more information of instant recording. Press **STOP** key to stop instant recording.

6.2 Epg recording

You will never loss any preference program base on fully EPG recording feature. Press **OK** key to start EPG recording while you browser the EPG. You also could edit or delete EPG recording event on schedule window.

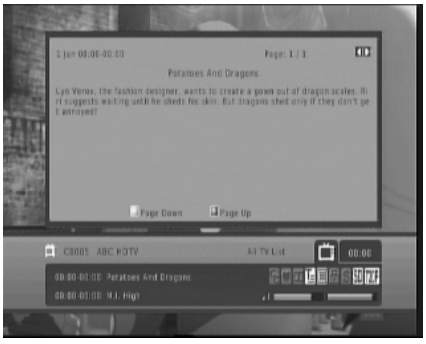
6.3 Playback recorded program

Press **PVR** key to display the recorded program. Follow the help information to preview, playback the recorded program and edit the recorded program.

7. Hot Key

7.1 Info

Press **INFO**. key to displaying base information bar during watching TV programs. Press **INFO**. key twice to displaying further more program information during watching TV.



7.2 Audio

The program might have multilingual audio language and the audio broadcast on different audio mode such as Stereo, Left or Right. All the available audio languages will display on the audio track windows while you press **AUDIO** key. The screenshot is illustrated below. If there is no audio output after you select the audio language, it indicates that there is no audio on the current audio mode, so you have to select preferable audio mode.

7.3 TXT

Programs might have multilingual subtitle information.
All available subtitle languages would display on the subtitle information window while you press **TXT** key. The screenshot is illustrated below. Follow the help information on the subtitle windows to select preference subtitle.

7.4 Find

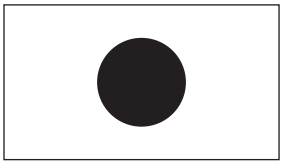
The video programs may have different resolutions 720×576P, 1280×720P and 1920×1080I. Normally, the standard definition programs have 720×576P and high definition programs have 1280×720P,1920×1080I. In order to get excellent quality on the TV screen, press **FIND** key on the remote control to display the resolution control window. The screenshot is illustrated below. On the resolution window you could find 576I, 576P, 720P, 1080I and Auto. It is recommended selecting Auto.

7.5 V-Format

The aspect ratio of the video can be 4:3 (also know as Anamorphic Image) or 16:9 (also know as widescreen TV). Normally the aspect ratio of standard definition video should be 4:3 and the high definition video should be 16:9. In order to get excellent quality on the TV set, press the key to set suitable aspect ratio. The screenshot of the aspect ratio window is illustrated below.

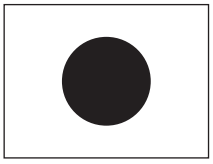
16:9 Stream on a 16:9 TV

Whatever the mode



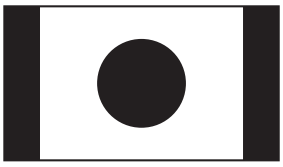
4:3 Stream on a 4:3 TV

Whatever the mode

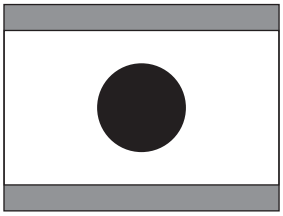


4:3 Stream on a 16:9 TV

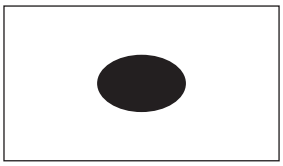
Letter-box



Pan and scan

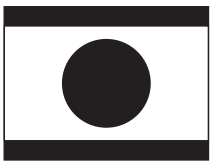


Full Screen

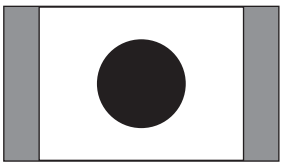


16:9 Stream on a 4:3 TV

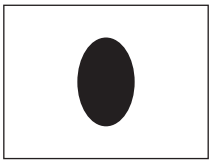
Letter-box



Pan and scan



Full Screen



Display black bars

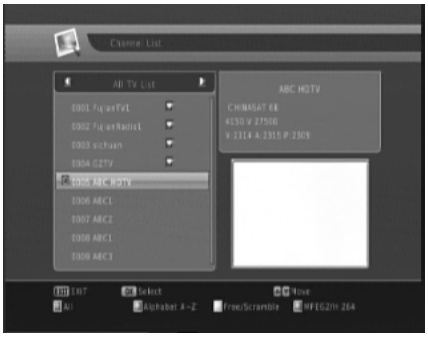
Not display area of the stream

7.6 EPG

Press **EPG** key to display the weekly electronic program guide. You could find when your enjoy program start and the summary of your enjoy program.

7.7 TV Channel and Radio Channel List

Press **OK** key to display all TV channel or all Radio channel. Follow the help information at the bottom of the window to select preference channel.



7.8 Favourite Channel

You can add preference channels to favourite's channel list on the channel edit window. Press **FAV** key to launch your favourite's channel list.

Problem	Possible causes	What to do
The display on the front panel does not light up.	• Main cable is not connected.	• Check that the main cable is plugged into the power socket.
No sound or picture, but the front panel shows red light.	• The receiver is in standby mode.	• Press the standby button.
No sound or picture.	• The satellite dish is not pointing at the satellite. • No signal or weak signal.	• Adjust the dish. Check the signal level in the Antenna Setup menu. • Check the cable connections, LNB and other equipment connected between the LNB and the receiver, or adjust the dish.
Bad picture / blocking error.	• The satellite dish is not pointing at the satellite. • Signal is too strong. • Satellite dish is too small. • LNB noise factor too high. • The LNB is faulty.	• Adjust the dish. • Connect a signal attenuator to the LNB input. • Change to a larger dish. • Change to an LNB with lower noise factor. • Change the LNB.
The RCU is not working.	• Battery exhausted. • RCU is incorrectly aimed.	• Change the batteries. • Aim RCU at the , or check that nothing blocks the front panel.

✚ NOTE : If you have tried all of the actions suggested above, without solving the problem, please contact your dealer or service provider.